

Appl. No. : 10/663,374
Filed : September 16, 2003

AMENDMENTS TO THE CLAIMS

1. (Withdrawn) A method for removing injection-moulded parts from an injection-moulding machine and transferring the injection-moulded parts onto a conveying device, an arm of a removal device being made to move into a parting plane between opened mould halves, the injection-moulded parts being removed from mould cavities of a mould half and transferred from the injection-moulding machine to a transfer device, which takes over the injection-moulded parts from the removal device and deposits them on a conveying path, the method comprising;

providing an injection-moulding machine with a multi-daylight mould which has more than two parting planes between a number of mould halves;

simultaneously removing the injection-moulded parts in all the parting planes by means of a removal device, which has arms which correspond in their number to the number of parting planes;

moving the removal device into a first transfer position, in which the injection-moulded parts from one group of arms are deposited by a transfer unit on a first conveying path; and

further moving the removal device into at least a second transfer position, in which the injection-moulded parts from a further group of arms are deposited by a further transfer unit on a second conveying path.

2. (Withdrawn) A method for removing injection-moulded parts from an injection-moulding machine and transferring the injection-moulded parts onto a conveying device, an arm of a removal device being made to move into a parting plane between opened mould halves, the injection-moulded parts being removed from mould cavities of a mould half and transferred from the injection-moulding machine to a transfer device, which takes over the injection-moulded parts from the removal device and deposits them on a conveying path, the method comprising:

providing an injection-moulding machine with a multi-daylight mould which has more than two parting planes between a number of mould halves;

simultaneously removing the injection-moulded parts in all the parting planes by means of a removal device, which has arms which correspond in their number to the number of parting planes;

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moving the removal device into a transfer position, in which the injection-moulded parts from all the arms are taken over by the transfer device, whereupon at least one of at least two units of the transfer device is moved into a transfer position; and

depositing the injection-moulded parts by the individual units of the transfer device on the assigned conveying paths.

3. (Currently Amended) An injection-moulding machine with a handling system for injection-moulded parts, comprising:

a multi-daylight mould with more than two parting planes between a number of mould halves;

a removal device comprising a number of arms corresponding to the number of parting planes of the multi-daylight mould and a common carrier on which the arms are arranged and which can be moved such that the arms move into and out of the more than two parting planes;

at least two transfer ~~devices~~ units arranged offset in relation to one another and which take over removed injection moulded parts from the arms of the removal device; and

at least two conveying paths which lie next to one another and are assigned to the transfer units and wherein the transfer devices deposits the injection moulded parts on a respective conveying path wherein the removal device is movable into a first transfer position, in which the injection-moulded parts from one group of arms are deposited by a first transfer unit on a first conveying path and further movable into at least a second transfer position, and in which the injection-moulded parts from a further group of arms are deposited by a second transfer unit on a second conveying path.

4. (Currently Amended) The injection moulding machine of Claim [4] 3, wherein the transfer units comprise pivotable transfer plates which can be pivoted by an actuating device through approximately 90° into a transfer position.

5. (Cancelled)

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6. (Cancelled)

7. (Previously Presented) The injection moulding machine of Claim 8, wherein the guide extends over the multi-daylight mould or outside the latter and over the transfer units transversely in relation to a longitudinal axis of the injection-moulding machine and the direction of movement of the conveying paths, and wherein the arms of the removal device protrude downwards from the guide.

8. (Previously Presented) The injection moulding machine of Claim 3, further comprising a guide engaged with the common carrier such that the common carrier moves along the guide.

Please add the following new Claims:

9. (New) The injection moulding machine of Claim 3, wherein the removal device is configured such that the arms translate longitudinally into and out of the more than two parting planes.

10. (New) An injection-moulding machine with a handling system for injection-moulded parts, comprising:

 a multi-daylight mould with more than two parting planes between a number of mould halves;

 a removal device comprising a number of arms corresponding to the number of parting planes of the multi-daylight mould;

 at least two transfer units arranged offset in relation to one another and which take over removed injection moulded parts from the arms of the removal device; and

 at least two conveying paths arranged adjacent one another and which are assigned to the transfer units wherein the removal device is adapted to move to a removal position, wherein the injection-moulded parts are taken from the mould, and to transfer positions, whereat the individual transfer units transfer respective injection moulded parts to a respective allocated conveying path.

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11. (New) The injection moulding machine of Claim 10, further comprising a guide engaged with the common carrier such that the common carrier moves along the guide.

12. (New) The injection moulding machine of Claim 10, wherein the removal device is configured such that the arms translate longitudinally into and out of the more than two parting planes.

13. (New) The injection moulding machine of Claim 10, wherein the transfer units comprise pivotable transfer plates which can be pivoted by an actuating device through approximately 90° into a transfer position.